**Explanation Framework- 1st Draft**

**7th Grade Science PopEco Investigation 5-2**

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| **Feedback Rubric for Scientific Explanations** | | | | |
|  | 4 | 3 | 2 | 1 |
| **Claim** | | | | |
| **Relevant** 🡪 The claim directly & clearly responds to the question. | Claim directly & clearly responds to the question. | Claim responds directly or clearly to the question. | Claim does not respond to the question. | No claim statement. |
| **Stands-Alone** 🡪 The claim statement is complete | Claim stands alone as a complete statement. | Minor missing piece to be a complete statement. | Vague or missing pieces. |
| **Evidence** | | | | |
| **Appropriate** **and** **Sufficient** 🡪 Is this the right type of evidence for this claim? Is there enough evidence? | Data is relevant and provides sufficient evidence to support claim and rebuttal.  *(cite evidence of a 3 AND cite evidence that plants do not need N2 or O2 to grow).* | Data is relevant and provides sufficient evidence to support claim, but not rebuttal.  *(cite evidence that plants needed H2O, CO2, and light to grow).* | Cites evidence that is not relevant to claim. | No evidence cited. |
| **Reasoning** | | | | |
| **Stands-Out** 🡪 Is the reasoning obvious, or hard-to-spot? | Reasoning statements stand out among other statements. | Reasoning is present, but is not obvious. | Repeats the Claim, Question, or Evidence. | No reasoning statements. |
| **Link** 🡪 Why this data should count as evidence. | Says how the data are the right data. | Minor piece is missing. | Attempts, but is unclear about how the data cited is relevant. |
| **Science Concept** 🡪 Use scientific concept to connect reasoning to claim | Includes appropriate and sufficient science concepts to explain why the evidence supports the claim.   * *Photosynthesis: Light, H2O, CO2 all required for plant growth* * *Growth=food created* * *Food=Energy for* producer (cheese ball investigation) * *Sun is original source of energy* | Includes some appropriate science concepts for why the evidence supports the claim, but not sufficiently.   * *Photosynthesis: Light, H2O, CO2 all required for plant growth* * *Growth=food created* * *Food=Energy for* producer (cheese ball investigation) | Lightly addresses the science concepts, may fail to connect to claim or evidence, and/or may have some incomplete science concepts. |